



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.

	EXAMINER
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ART UNIT	PAPER NUMBER
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DATE MAILED: *7*

Please find below a communication from the EXAMINER in charge of this application.

Commissioner of Patents

The reply filed 6/18/98 is not fully responsive to the communication mailed 1/26/98 for the reason(s) set forth on the attached Notice To Comply With The Sequence Rules or CRF Diskette Problem Report.

Since the above-mentioned reply appears to be *bona fide*, applicant is given a TIME PERIOD of **THIRTY (30) DAYS** from the mailing date of this notice within which to supply the omission or correction in order to avoid abandonment. EXTENSIONS OF THIS TIME LIMIT MAY BE GRANTED UNDER 37 CFR 1.136(a).

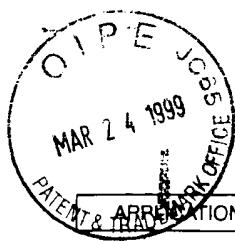
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Wang whose telephone number is (703) 306-3217. The examiner can normally be reached on Monday to Thursday from 8 a.m. to 4:00 p.m. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Elliott, can be reached on (703) 308-4003. The fax phone number for this Group is (703) 308-4242.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Andrew Wang  
September 14, 1998

JOHN LACHMAYER  
PRIMARY EXAMINER  
GROUP 1200  
1620



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SEP 28 1998



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

APPLICATION NO.

FILING DATE

FIRST NAMED INVENTOR

ATTORNEY DOCKET NO.

EXAMINER

ART UNIT

PAPER NUMBER

DATE MAILED: 10/22/98

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

## NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821 - 1.825 for the following reason(s):

1. This application clearly fails to comply with the requirements of 37 CFR 1.821 - 1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.

2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 CFR 1.821(c).

3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e).

4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing."

5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d).

6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e).

7.

Other: \_\_\_\_\_

Applicant must provide:

An initial or substitute computer readable form (CRF) copy of the "Sequence Listing"

An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification

A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d)

For questions regarding compliance with these requirements, please contact:

For Rules Interpretation, call (703) 308-1123

For CRF submission help, call (703) 308-4212

For PatentIn software help, call (703) 557-0400

Please return a copy of this notice with your response.

# Raw Sequence Listing Error Summary

14881

ERROR DETECTED   SUGGESTED   CORRECTION

SERIAL NUMBER: 08/978,635

**ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE**

1  Wrapped Nucleic The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".

2  Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".

3  Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.  
All text must be visible on page.

4  Misaligned Amino Acid Numbering The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.

5  Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.

6  Variable Length Sequence(s)  contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and indicate in the (ix) features section that some may be missing.

7  Wrong Designation Sequence(s)  contain amino acid or nucleic acid designators which are not standard representations as per the Sequence Rules (Please refer to paragraph 1.822)

8  Skipped Sequences (OLD RULES) Sequence(s)  missing. If intentional, please use the following format for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X:  
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:  
This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES" response to include the skipped sequence(s).

9  Skipped Sequences (NEW RULES) Sequence(s)  missing. If intentional, please use the following format for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000

10  Use of N's or Xaa's (NEW RULES) Use of N's and/or Xaa's have been detected in the Sequence Listing.  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

11  Use of <213>Organism (NEW RULES) Sequence(s)  are missing this mandatory field or its response.

12  Use of <220>Feature (NEW RULES) Sequence(s)  are missing the <220>Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"  
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32)  
(Sec. 1.823 of new Sequence Rules)

13  Wrong Format File submitted was in the alphabetical heading format of the Old Sequence Rules. This is invalid since the "Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Disclosures" Federal Register Notice, Vol. 63, No. 104, June 1, 1998, p. 29620 applies to applications filed on or after July 1, 1998.

### INPUT SET: S28157.raw

This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/978,635DATE: 08/20/98  
TIME: 15:26:09--> 46 (ix) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
47

INPUT SET: S28157.raw

delete

## ERRORED SEQUENCES FOLLOW:

48 (2) INFORMATION FOR SEQ ID NO:1:  
49

50 (i) SEQUENCE CHARACTERISTICS:

51 (A) LENGTH: 20 amino acids

52 (B) TYPE: amino acid

53 (C) STRANDEDNESS: single

54 (D) TOPOLOGY: linear

55

56 (ii) MOLECULE TYPE: peptide

57

58 (iii) HYPOTHETICAL: NO

(x!) ← fix globally

60 (ix) SEQUENCE DESCRIPTION: SEQ ID NO:1:

61

62 Gly Phe Phe Gly Ala Ile Ala Gly Phe Leu Glu Gly Gly Trp  
63 11 5 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10

64 Met Ile Ala Gly

65 20 20

66

67

68

(see 1822h)  
Per Sequence Rules, use one  
space between amino acids.

only 18 visible on page

Fix amino numbering.  
Do NOT use TAB codes between  
amino numbers. Use space between

813 (2) INFORMATION FOR SEQ ID NO:42:

814

815 (i) SEQUENCE CHARACTERISTICS:

816 (A) LENGTH: 67 base pairs

817 (B) TYPE: nucleic acid

818 (C) STRANDEDNESS: single

819 (D) TOPOLOGY: linear

820

821 (ii) MOLECULE TYPE: other nucleic acid

822 (A) DESCRIPTION: /desc = "oligonucleotide"

823

824 (iii) HYPOTHETICAL: YES

825 (x!)

826 (ix) SEQUENCE DESCRIPTION: SEQ ID NO:42:

827

828 CCGGATAATA CGACTCACTA TAGGGCGAGC TCGGTACCCG GGTCTAGACT CGACCTGCAG

829

830 GCATGCT 67

831

832

833

834

835

60

all next pg

PAGE: 3

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/978,635

DATE: 08/20/98  
TIME: 15:26:10

INPUT SET: S28157.raw

--> 836 LC/WORD/USPROSECUTION/ENZ53D4/SEQUENCE LISTING.060898..enz-53(D4)  
837 SEQ ID: PAGE 15  
838  
839 ENZ-53(D4)  
840  
841 ENZ-53(D4)  
842  
843  
844

*delete*

SEQUENCE VERIFICATION REPORT  
PATENT APPLICATION US/08/978,635

INPUT SET: S28157.raw

Line	Error	Original Text
14	Number of Sequences (0) Doesn't Equal Actual Count (42)	(iii)NUMBER OF SEQUENCES: 42
35	Wrong Classification	(C)CLASSIFICATION:Not Yet Known
46	Unknown or Misplaced Identifier	(ix)SEQUENCE DESCRIPTION:SEQ ID NO:1:
51	Entered (20) and Calc. Seq. Length (19) differ	(A)LENGTH:20 amino acids
816	Entered (67) and Calc. Seq. Length (71) differ	(A)LENGTH:67 base pairs
837	Wrong Nucleic Acid Designator	SEQ ID: PAGE 15
837	Wrong Nucleic Acid Designator	SEQ ID: PAGE 15
837	Wrong Nucleic Acid Designator	SEQ ID: PAGE 15
837	Wrong Nucleic Acid Designator	SEQ ID: PAGE 15
837	Wrong Nucleic Acid Designator	SEQ ID: PAGE 15
837	Wrong Nucleic Acid Designator	SEQ ID: PAGE 15
837	# of Sequences for line conflicts w/ running total	SEQ ID: PAGE 15